Nov. 2. 2005 2:33PM From:Fitzner & Münch

PATENT COOPERATION TREATY

PCT

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (Chapter I of the Patent Cooperation Treaty)

(PCT Rule 44bis)

Applicant's or agent's file reference PAT 01096PCT	FOR FURTHER ACTION	See item 4 below			
International application No. PCT/EP2004/000541	International filing date (day/month/year) 23 January 2004 (23.01.2004)	Priority date (ddy/month/)war) 05 February 2003 (05.02.2003) }			
International Palent Classification (IPC) or national classification and IPC 7 COSG 63/91					
Applicant BASF COATINGS AG					

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1.	This international preliminary report on patentability (Chapter I) is issued by the International Bureau on behalf of the International Searching Authority under Rule 44 bis. I(a).					
2.	This REPORT consists of a total of 9 sheets, including this cover sheet.					
	In the attached sheets, any refe to the international preliminary		the International Searching Authority should be read as a reference ter I) instead.			
3.	3. This report contains indications relating to the following items:					
	Box No. 1 Basis of the report					
	Box No. II Priority					
	Box No. M	Non-establishment of opinion with regard to novelty, inventive step and industrial applicability				
	Box No. IV	Box No. IV Lack of unity of invention				
	Bux No. V	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement				
	Box No. VI	Certain documents cited				
	Box No. VII Certain defects in the international application					
•	Box No. VIII Certain observations on the international application					
4.	4. The International Bureau will communicate this report to designated Offices in accordance with Rules 44bis 3(c) and 93bis.1 but not, except where the applicant makes an express request under Article 23(2), before the expiration of 30 months from the priority date (Rule 44bis .2).					
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	•		Date of issuance of this report 18 September 2005 (16.09.2005)			
_ _	The International Bun 34, chemin des Co 1211 Geneva 20, S	lombetics	Authorized officer Agnes Wittmann-Regis			
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Box No. VIII Certain observe	ations on the interpetional	application	ı.		
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If this opinion is, as provided above, our british reply together, where appropriate PCT/ISA/220 or before the expiration of its content of the provided above.	midered to be a written or	dalon of th	to IPRA, the applicant is invited t		
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	contained in the international application as filed	į
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In add	lition, in the case that more than one version or copy of a caquesce listing an ted, the required statements that the information in the subsequent or additional r does not go beyond the application as filed, as appropriate, were furnished.	ad/or table(s) relating thereto has been filed or I copies is identical to that in the application as
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	Written Opinion of the International Searching Authority		International application No.			
Box No. II Priority			PCT/EP2004/000541			
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•	\boxtimes	validity of the priority claim has not been considered because the International Searching Authority does not have in session a copy of the earlier application whose priority has been claimed or, where required, a translation of that earlies Internation has nevertheless been established on the assumption that the relevant date (Rules 43bir.1 and 64.1) is the priority date.				
		This opinion has been artablished as if no priority had been delimed due to the fact (Rules 436k) and 54.1). Thus for the purposes of this epinion, the international fill relovant data.	that the priority claim has been found invaling date indicated above is considered to be the			
	Addi	doubl observations, if peocusary:				
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Box No. V	Reaconned statem	est neder Rule 4	ibls I(a)(i) with regard to navelty, in the	PCT/EP2004/00	0541
1. Stateme		mananan sappor	ung rock statement		
Nov	eity (N)	Clairog	38.00		
			17-18 1-14, 16,	70 22	YB
Inve	ntive step (IS)	-	2 24/ 18	. 13, 21	NO
	V amp (m)	— ·			YES
		Claims	1-19,		NO
Indus	strial applicability (IA)	Claims	1-19,	21	YES
		Claims			
Citations	and explanations:				
Rafe;	rence is mad	de to th	e following docume	35 to as	
			e rorrowing gocume	ents:	
D1:	US-A-6 150	458 (was	IKARD JAN ET AL) 2	1	
	(2000-11-23	135 (MZ.	TRANCO CAN ET AL) 2	1 November 2000	
D2 =			TT 555		
	2003 (2003	00 05/	ILBER STEFAN ET AL) 27 February	
D3:	ED-3-0 000	427 477	cited in the appl	ication	
D4:	TC-3 4 224	480 (UCE	SA) 12 April 200	0 (2000-04-12)	
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	1982 (1982-	_			
D5: :	uatabase WP	I Sectio	n Ch, Week 199941	Derwent	
4	Publication,	B Ltd.,	London, GB; Class	A23, AN 1999-	
•	489027 XP002	2278904	& JP 11 209730 A (TOYOBO KK), 3	
	August 1999		•		
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2	90946 XP002	2789805	& JP 06 220148 A	(NIPPON KAYAKII	
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WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.
PCT/EP2004/000541

Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, invantive step or industrial applicability:

(1.999-02-25)

D9: US-A-5 069 929 (ARAI TETSUZO ET AL) 3 December 1991 (1991-12-03).

PCT Article 33(2):

Claim 1 concerns a polyester.

Document D1 discloses the same combination of technical features as claim 1 (column 2, lines 1-11; column 4, lines 11-16; claims and examples).

The same applies to documents D3 (page 3, lines 43-64; page 2, lines 39-41; claims and examples), D4 (column 3, lines 3-64; column 7, line 67, to column 8, line 49; column 9, lines 31-41; claims and examples), D5, D6 and D7.

Consequently, the subject matter of claim 1 does not meet the requirements of PCT Article 33(2).

The same also applies to the subject matter of claims 2 to 14, 16, 19 and 21, which concern routine embodiments and are known from the prior art, as well as to the subject matter of claims 19 and 21.

Claims 17 and 18:

None of the documents discloses the same combination of technical features as claims 17 and 18.

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WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/EP2004/000541

Reasoned statement under Rule 43bb.1(a)(i) with regard to novelty, inventive step or industrial applicability; Box No. V citations and explanations supporting such statement

Consequently, the subject matter of claims 17 and 18 meets the requirements of PCT Article 33(2).

PCT Article 33(3):

Claims 1 to 14, 16, 19 and 21:

If amended main claims are submitted which meet the requirements of PCT Article 33(2), the applicant should highlight the distinguishing technical feature and either show that it results in a surprising technical effect or credibly demonstrate that this feature cannot readily be derived from the prior art.

The same also applies to the subject matter of claims 2 to 14, 16, 19 and 21, which concern routine embodiments and are known from the prior art.

Claim 15:

A person skilled in the art would replace (meth) acrylic acid esters with (meth) acrylic acid without exercising inventive skill.

Consequently, the subject matter of claim 15 does not satisfy PCT Article 33(3).

Claims 17 and 18:

Document D3 is considered the closest prior art (page 2, lines 39-41). The difference between document D3 and claim 17 lies in the fact that in claim 17 the polyester

Form PCT/18A/237 (Box No. V) (April 2005)

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WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.
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Box No. V Respond statement under Rule 49bis.1(a)(i) with regard to novalty, inventive step or industrial applicability; citations and explanations supporting such statement

is reacted with the (meth) acrylic acid using an enzyme as catalyst and not, as in document D3, with the aid of microwaves. Since no comparative example with respect to document D3 is available, the objective technical problem is that of providing a further method for the esterification of polyesters using (meth) acrylic acid.

Document D2 discloses that an enzymatic method can be used for the esterification of polyester polyols using (meth) acrylic acid (column 5, lines 3-10; and column 6, lines 51-64). Consequently, the prior art documents suggest carrying out the esterification with the aid of enzymes as catalysts.

The subject matter of claim 17 therefore fails to meet the requirements of PCT Article 33(3).

The same applies to the subject matter of claim 18.

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WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/EP2004/000541

Box No. VIII . Certain observations on the international application

The following observations on the clarity of the chains, description, and drawings or on the question whether the claims see fully supported by the description, are made:

PCT Article 6:

Claims 1 and 17 are unclear insofar as the "group activatable using actinic radiation" is not defined clearly.

In addition, the polyesters are defined in terms of their production. This definition does not make the polyesters novel over, for example, polyesters containing acrylate groups. The applicant would have to demonstrate that the present polyesters have different technical properties.

Claim 7 is not supported by the description (page 11, lines 24-30) because in this case the enzyme is a hydrolase.

Claim 8 is not supported by the description (pages 11-12) because in this case the organisms contain a lipase.

Claim 12 is not supported by the description.

PCT Article 33(4):

The subject matter of all the claims is industrially applicable.

Form PCT/ISA/237 (Box VIII) (April 2005)